

# Hljóðnemar

Saga AKG, Shure og Neumann



# AKG

- Akustische und Kino Geräte
  - Hljóð og kvikmynda tæki
- Stofnað í Austurríki í lok seinna stríðs
- Byrjuðu á að framleiða hátalara og myndvörpur fyrir kvikmyndir
- DYN 60 (1946)
  - Fyrsti dínamíski AKG
  - 600 stk framleidd



# AKG

- DYN 12 – 1953
  - Fyrsti dínamíski hljóðneminn með Cardioid Pattern
- D36
  - Fyrsti dínamíski hljóðneminn með fleiri en einu Polar Pattern



# AKG

- C12 – 1953
  - Talinn einn af bestu lampa condenser hljóðnemum sem nokkur tíma hafa verið framleiddir
  - CK12 membra



# AKG

- C12A
- Komu fram á sjöunda áratugnum
- Notuðu líka CK12 membruna
- C12A er fyrirrennari C414 sem eru með vinsælustu hljóðnemum í dag



# AKG

- Telefunken ELA M251 - 1959
- Smíðaðir af AKG fyrir Telefunken
- Einn dýrasti hljóðnemi sem til er í dag



# Shure

- Stofnað 1925
- Dreifingafyrirtæki með búnað fyrir þá sem smíðuðu útvörp sjálfir
- 1932 byrjuðu þeir að framleiða hljóðnema
  - 3B Carbon hljóðnemi. Verð \$5.50
- Framleiddu mikið af hljóðnemunum fyrir herinn í seinna stríði



# Shure

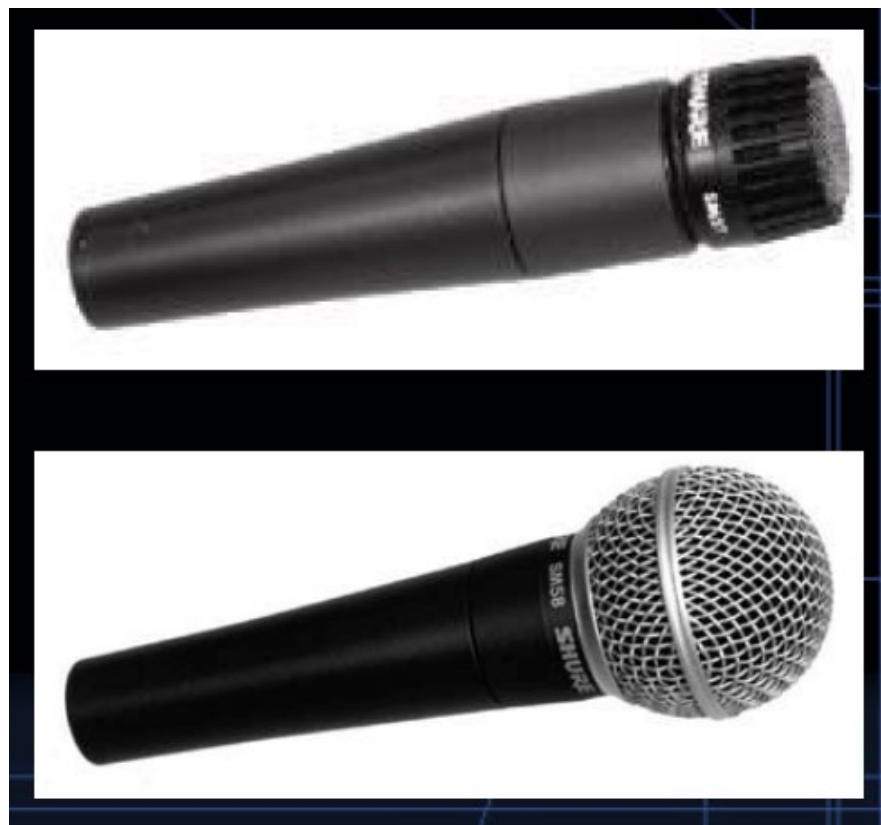
- Á sjötta áratugnum komu þeir með margar nýjar línur
- Sonodyne, Ecodyne, Unidyne
- Unidyne var fyrsti hljóðneminn til hafa Cardioid pattern með einungis eina membru
- Byrjuðu að þróa “hinn fullkomna sönghljóðnema fyrir svið”





# Shure

- SM57 og SM58 voru þrjú ár í hönnun
- Komu á markað 1966 og eru ennþá með vinsælustu dínamísku hljóðnemunum



# Shure

- KSM línan af hljóðvershljóðnemunum er ein vinsælasta “mid price” línan í dag



# Neumann

- George Neumann Labs var stofnað í Þýskalandi 1927
- Neumann vildi finna leið til að gera betri upptökur
- CMV3 Fyrsti fjöldaframleiddi Condenser hljóðneminn



# Neumann

- U47 – 1949
- Af mörgum talinn besti hljóðnemi fyrr og síðar



# Neumann

- U67 – 1960
- “Hljómur Morgundagsins”
- Þróast svo yfir í U87 sem ennþá er mjög vinsæll (kostar nýr í kring um 500 þúsund)



**U-67 SOUND OF TOMORROW!**

## NEUMANN U-67 MICROPHONE

Sets NEW Standards for the Next Decade!

Neumann proudly introduces the U-67 Microphone — which represents a culmination of over 30 years of electronic leadership. The U-67 contains many advance features that not only meet the needs of today... but anticipate the requirements of the future!

Check these outstanding features — see for yourself why the U-67 Microphone is truly the New Microphone Standard of the World!

1. Electronically switched directional characteristics: Cardioid, Dual-directional, Figure-8.
2. Frequency response perfectly linear  $\pm 1$  dB to 15 KC with respect to a direct incident sound field; virtually no peak at the high end. Makes possible close miking without the usually sharp sound common to previous condenser microphones.
3. A newly developed and patent applied for input circuit permits flat response to 40 cps with sharp roll-off below. This makes possible full-fidelity pickup without necessity of elastic suspension, wind-screens, or "popping" Ethers. Previous attempts at filtering out low frequency response AFTER the microphone's preamplifier were useless since "bleeding" already occurred from tremendous low-frequency output of condenser capsule. Now for the first time such "bleeding" has been stopped AHEAD of the amplifier, making the U-67 virtually "pop"-proof. (This circuit readily disabled for flat low-end response to below 19 cps.)
4. Separate "Voice-Music" switch raises the roll-off starting point from 40 cps to 100 cps. Especially advantageous for speech in TV and film applications.
5. A third switch on the microphone shell permits reduction of the capsule's sensitivity by approximately 14 dB BEFORE the amplifier section. Prevents overload of amplifier from extremely close placement of the microphone. This is the first time that such overload protection is available in a studio microphone, again at the INPUT to the amplifier.
6. Current regulated filament supply permits wide variation in interconnecting cable lengths without necessity for filament voltage adjustment.
7. "Calibrating Input" connection as power supply permits direct testing of microphone preamplifier with oscillator. Signal is fed directly to INPUT of amplifier section. Instantaneous response, distortion, noise, and SW requirements possible without opening microphone.
8. Regular EF-86 tube readily replaceable.
9. Zener diode use in power supply prevents damage if accidentally operated without microphone connected.
10. Complete protection against radio frequency interference due to a number of structural innovations in both power supply and microphone. Use of RF proof connectors. Feed-through capacitors used on all leads reaching the microphone connector.
11. Built-in pad for U.S. nominal input impedances and levels; fully compatible with all domestic microphones.

ACTUAL SIZE

**GOTHAM AUDIO CORPORATION**

2 WEST 46 STREET, NEW YORK 36, N.Y. · COLUMBUS 5-4111



# Neumann

- KM línan kom á markað 1966.
- Fyrstu hljóðnema sem nota 48V phantom Power
- Í dag framleiða Neumann marga vinsæla hljóðvers hljóðnema

